

ABSTRACT

A planetary differential gear type reduction device of the present invention includes an output gear affixed to an output shaft connected to an object to be driven.

5 A stationary gear has a smaller number of teeth than the output gear and is coaxial with the output shaft, but not rotatable. A planetary gear is rotatably mounted on a planetary gear shaft, which is driven by the torque of a drive source to revolve round the output gear and

10 stationary gear, and revolves round the output gear and stationary gear in mesh therewith. The planetary gear has a first portion and a second portion meshing with the stationary gear and output gear, respectively, and having the same number of teeth as each other. At least one of

15 the output gear, stationary gear and first portion and second portion of the planetary gear is implemented as a profile shifted gear.